WEB APPLICATION DEVELOPMENT
SSE3150-1

TITLE:

KPP TEST SYSTEM

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1. Introduction

The KPP Test System is built to evaluate colour-blind test to pass a driving license. The purpose of the Driver Education Curriculum Test (KPP Test System) is to test participants' eye vision for colour. After you attend the practical class, you must pass a computerised theory test from JPJ to get an L in Malaysia license before you can drive vehicles such as cars, and motorcycles. This exercise contains 10 questions and the questions are provided in Bahasa Malaysia. You are advised to take a sight distance of 75cm while answering. If you fail to answer all questions correctly, you are advised to see an eye doctor for further examination.
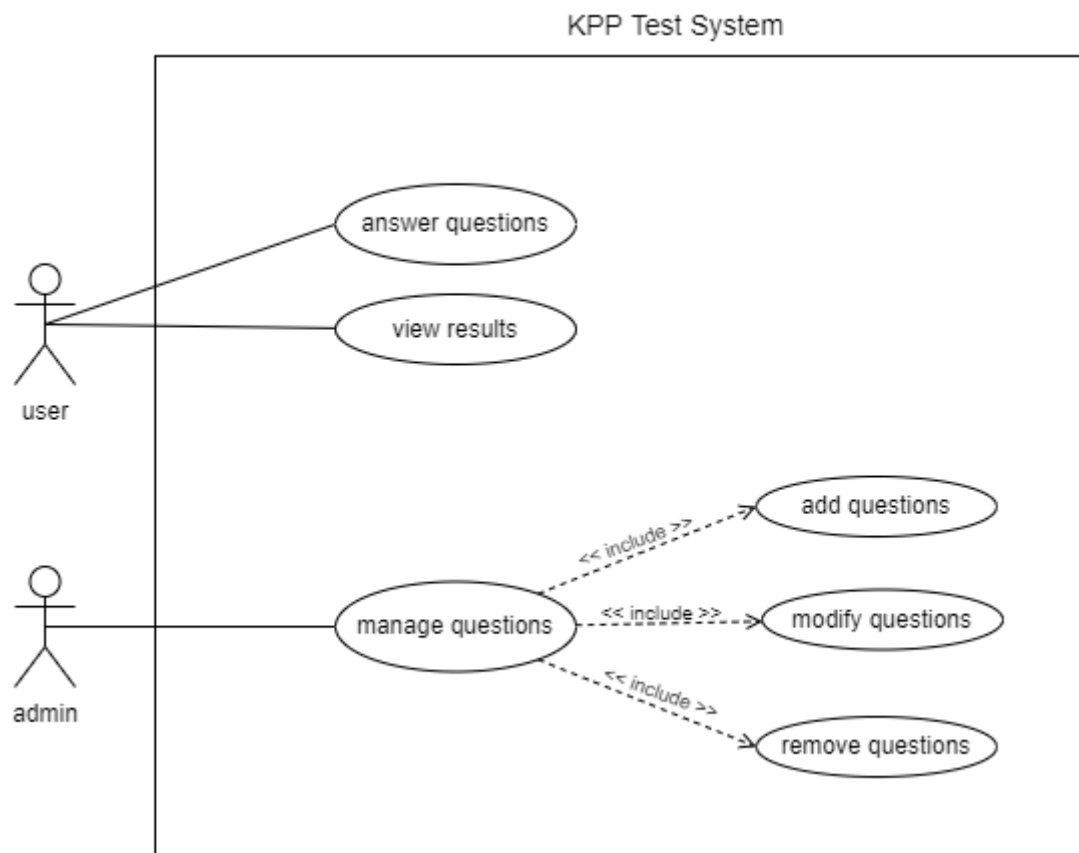
2. Functional Requirement

2.1. Use Case Diagram

KPP Test System

Figure :2. Use Case Diagram

2.2.   Use Case Description
2.2.1.   Login

Brief Description	The user wants to log in into the web application
Actors	User and admin
Preconditions	The user has registered into the system.
Main Flow	After the user has registered, the user and admin will click the login button to go into the login page. User will insert the required information. If it is correct, the user will be logged in and will be directed to the homepage.
Alternative Flows	1. If an incorrect input is inserted, the user will be redirected to the same login page but there will be an error message at the top of the login form. User needs to re-enter required information and try to login again. 2. The user can logout by clicking the logout button.
Postconditions	Logged in and into the homepage.

Table 2. Login Use Case Description

2.2.2. Answer Question

Brief Description	A user will answer questions to pass the KPP test.
Actors	User
Preconditions	The customer has signed on to the system.
Main Flow	After the customer has successfully signed on to the system, the user will be redirected to the questions section. The user will need to answer all questions before submitting the answers. After submission, the user can display their results
Alternative Flows	If the user unsuccessfully login, the user cannot answer the questions.
Postconditions	The user can display their results.

Table 3. : Use Case Description Answer Question

2.2.3. View Results

Brief Description	A user will view their results after answering all questions
Actors	User
Preconditions	The customer has submitted all answers.
Main Flow	After the customer has successfully submitted all their answers, the user will view their result on whether they pass the test or not.
Alternative Flows	If the user does not answer all questions, the user cannot display their results.
Postconditions	The user will be logged out.

Table 4. : Use Case Description View Results

2.2.4. Manage questions

Brief Description	An admin creating, modifying or removing a question.
Actors	Admin
Preconditions	The admin has signed on to the system.
Main Flow	After the admin has successfully signed on to the system, the admin can create, modify or delete any questions into the database. The questions will be updated into the database and will be added to the question section on the user side.
Alternative Flows	If the admin is not successfully logged in the system, the admin cannot manage the questions.
Postconditions	The record is saved into Katodiet database.

Table 5. : Use Case Description Manage Questions

3. ER Diagram
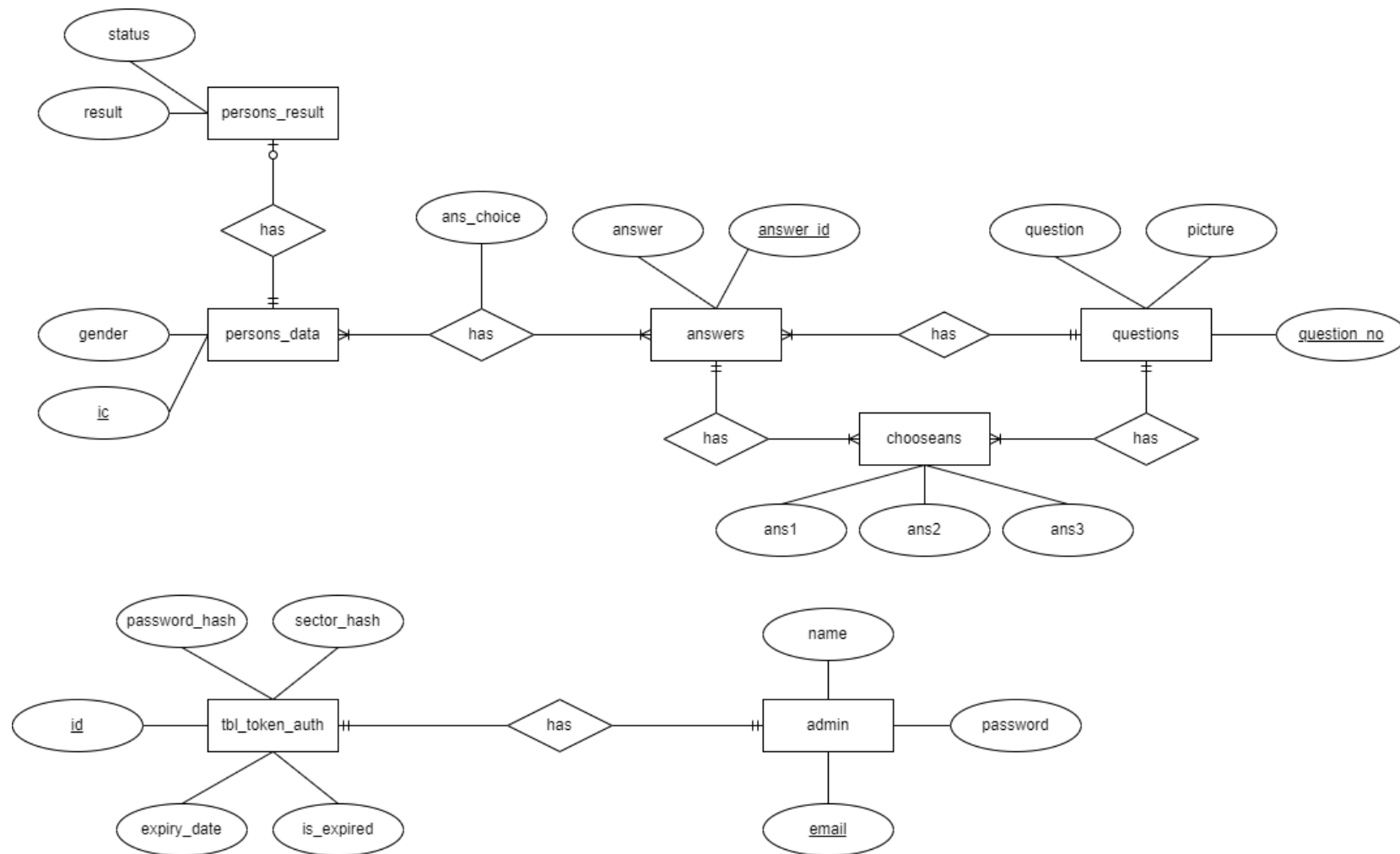
Figure :3. ER Diagram that consists of persons_data, persons_result, answers, questions, admin and cookies table.

4. Logical Database Design

4.1. Admin Table

Figure 4.1: Admin Table

4.2. Answers Table

Figure 4.2 : Answers Table

4.3. Chooseans Table

Figure 4.3: ChooseAns Table

4.4. Persons_ans

Figure 4.4: Persons_ans Table

4.5.   Persons_data Table

Figure 4.5: Persons_data Table

4.6.   Persons_result

Figure 4.6: Persons_result Table

4.7. Questions Table

Figure 4.7: Questions Table

4.8. Cookies Authentication Table

Figure 4.8: Cookies Authentication Table

5. Wireframe and Environment Information

    a. Software Information
       IDE: Atom
       Version: 1.60.0
       Electron: 9.4.4
       Chrome: 83.0.4103.122
       Node: V12.14.1

    b. Hardware Information
       Device Name: Laptop-M3ama98e
       Processor: AMD Ryzen 7 3750h With Radeon Vega Mobile Gfx   2.30 GHz
       Installed Ram: 12.0 Gb (9.94 Gb Usable)
       System Type: 64-Bit Operating System, X64-Based Processor

    c. Web Server
       Name: Apache/2.4.53 (Win64) OpenSSL/1.1.1n PHP/8.1.4
       Database client version: libmysql - mysqlnd 8.1.4
       PHP extension: mysqli, curl, mbstring
       PHP version: 8.1.4

    d. Database Server
       Server: 127.0.0.1 via TCP/IP
       Server type: MariaDB
       Server connection: SSL is not being used
       Server version: 10.4.24-MariaDB - mariadb.org binary distribution
       Protocol version: 10
       User: root@
       Server charset: UTF-8 Unicode (utf8mb4)

    e. phpMyAdmin
       Version : 5.1.3

6. User Interface

6.1. Homepage
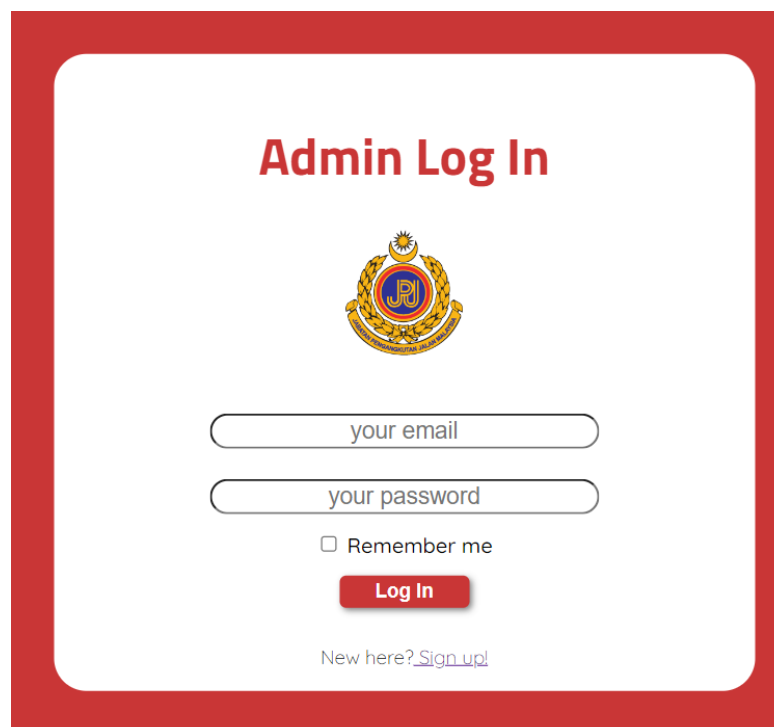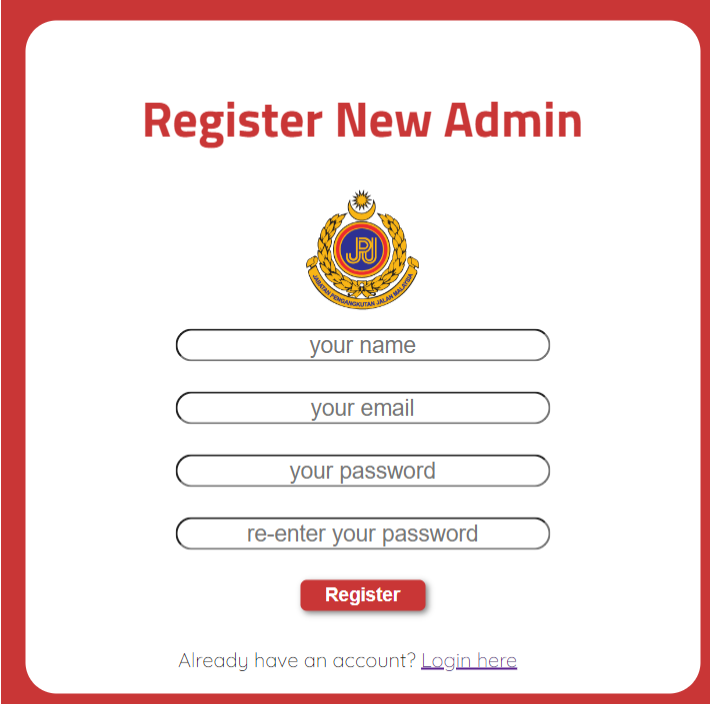

Figure :12. Homepage interface

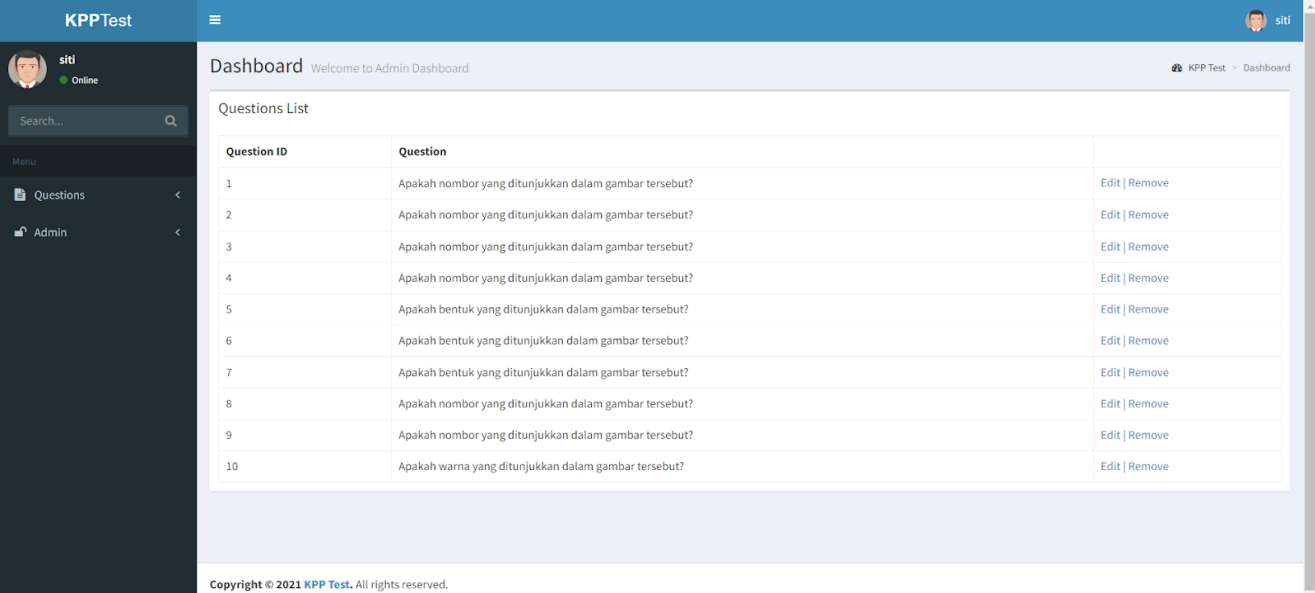## 6.2. Login Admin

Figure :13. Login Admin interface

6.3. Register Admin

Figure :14. : Register Admin interface

6.4. Admin Index

Figure :15. : Admin Homepage interface

6.5.   Admin Add Question

Figure :16. Admin add question function interface

6.6.   Admin View Result

Figure :17. : Admin view results of user interface
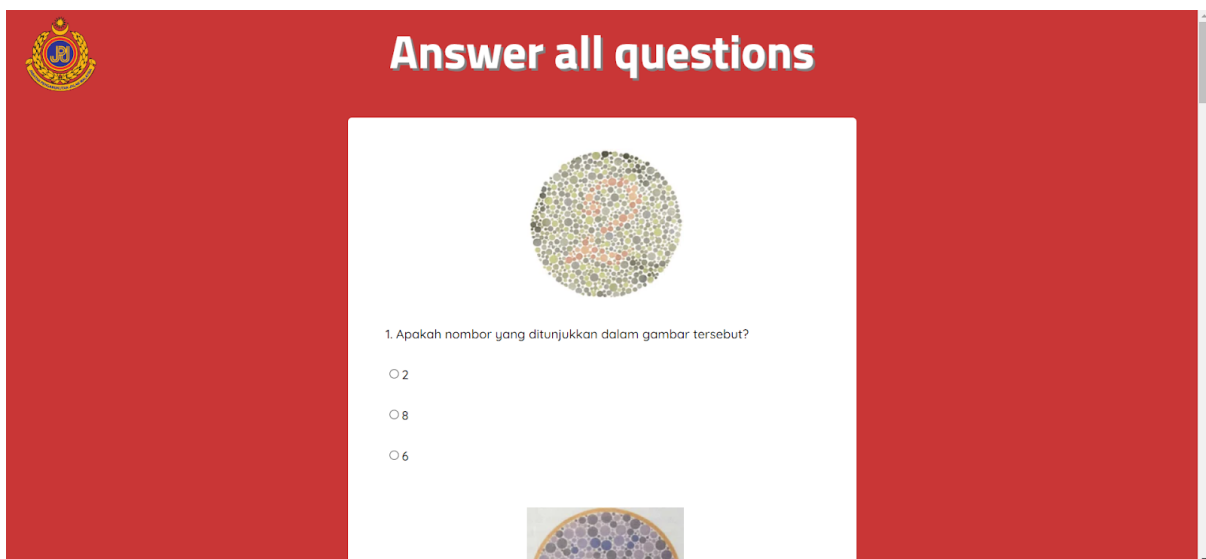
6.7.   Login User

Figure :18. User login interface

6.8.   User Questions

Figure :19. : List of questions interface

6.9.   User Result

Figure :20. Display result interface

7. Appendix

7.1. Program code

The code of the system can be retrieved by using this link, https://drive.google.com/drive/folders/1UaJ9BB1mAy1RzmXLssWsRWt7hNdrw427?usp=sharing .

7.2. Demonstration Video

The demonstration video can be viewed by using this link, https://drive.google.com/drive/folders/17HArlWD2c-H4KeyjVdV5-JWPQ0Kyo2mi?usp=sharing .

8. References

1. Otto, M. (2022). Bootstrap.Getbootstrap.com website: https://getbootstrap.com/

2. Ujian KPP – JPJ KPP Test 2022. (2022). Ujiankpp.com website: https://ujiankpp.com/